

Title (en)
Extendible airfoil track assembly.

Title (de)
Führungsschienenanordnung für ausfahrbare Flügelklappen.

Title (fr)
Assemblage de guide pour ailerons extensibles.

Publication
EP 0045988 A1 19820217 (EN)

Application
EP 81200792 A 19810708

Priority
US 17767580 A 19800813

Abstract (en)
An actuation and extension mechanism for aerodynamic high-lift devices such as a wing leading edge slat or a wing trailing edge flap; wherein an aerodynamic panel (20) is connected to one end of an extendible track member (23) that is supported and guided by its other end through rollers (26) fixedly mounted to wing rib structure (15). The track member incorporates a separate rack gear segment (24) internally thereof as part of the extension or retraction mechanism and this combination of track and gear segment provides the primary support and drive means to the high-lift device, without compromising the structural strength, safety, or operational reliability of said combination.

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B64C 13/34

IPC 8 full level
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CPC (source: EP US)
B64C 9/14 (2013.01 - EP); **B64C 9/16** (2013.01 - EP); **B64C 9/20** (2013.01 - EP); **B64C 9/24** (2013.01 - EP); **B64C 13/34** (2013.01 - EP US)

Citation (search report)
• DE 1274448 B 19680801 - VER FLUGTECHNISCHE WERKE
• DE 720038 C 19420422 - FISCHER ARNO
• US 2346424 A 19440411 - GRIFFITH CLIFFORD J
• US 1914797 A 19330620 - BAKER CLARENCE P
• DE 643682 C 19370416 - JOSEPH KSOLL
• DE 2729234 A1 19780105 - OLYMPUS OPTICAL CO
• Aircraft Engineering, Vol. 45, No. 11, November 1973, Bunhill Publications Ltd. London, GB "Development of the Family" pages 22-31 *page 24, right-hand column, line 4 to page 25, left-hand column, line 15; figures 42-44*

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EP 0227643 A2 19870701; EP 0227643 A3 19880720; DE 3176530 D1 19871223; EP 0045988 A1 19820217; EP 0045988 B1 19871119; EP 0045988 B2 19931006

DOCDB simple family (application)
EP 87200084 A 19810708; DE 3176530 T 19810708; EP 81200792 A 19810708